

FIG.1

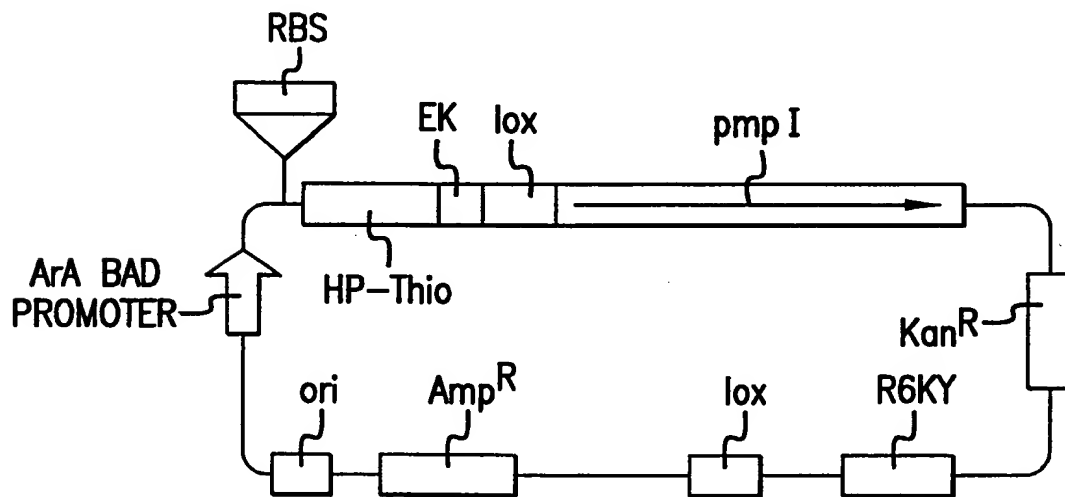


FIG.2

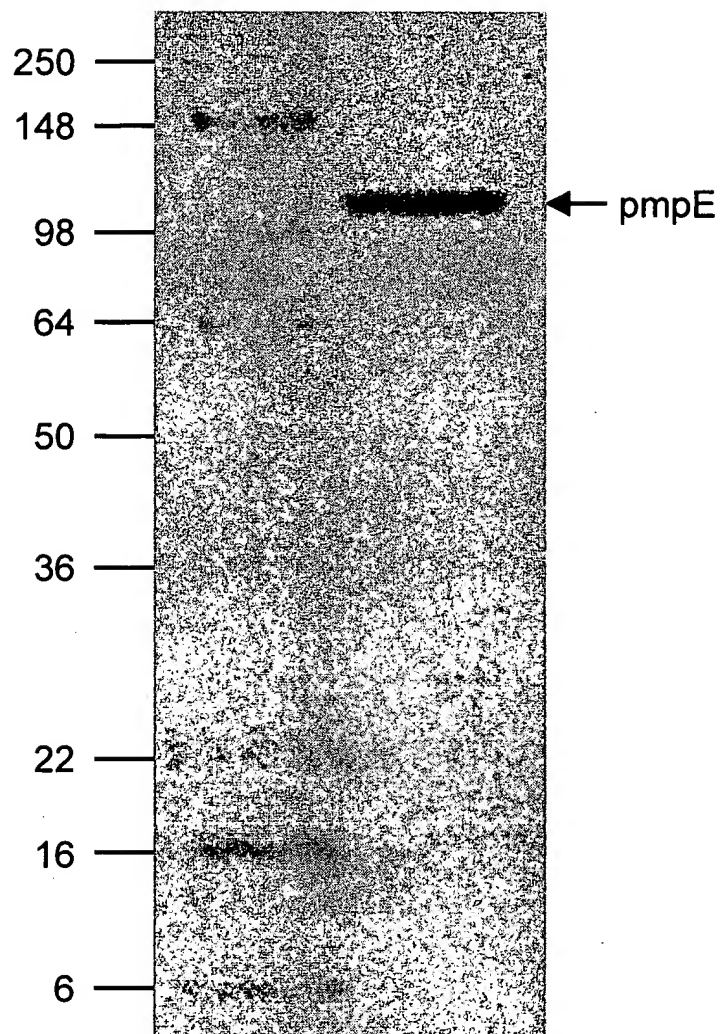


FIG.3

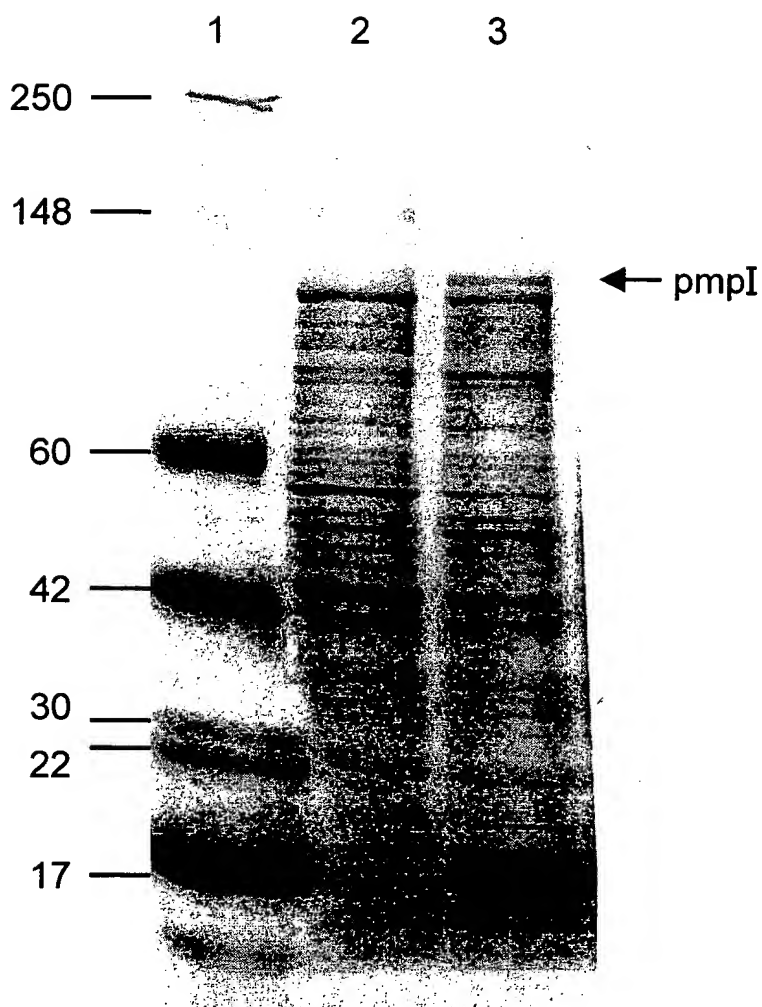
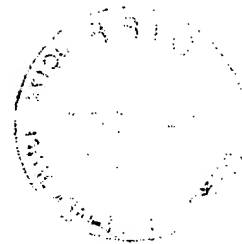


FIG.4

atg	aaa	aaa	gcg	ttt	ttc	ttt	ttc	ctt	att	gga	aac	tcc	cta	tca	gga	48
Met	Lys	Lys	Ala	Phe	Phe	Phe	Phe	Leu	Ile	Gly	Asn	Ser	Leu	Ser	Gly	
1				5					10					15		
cta	gct	aga	gag	gtt	cct	tct	aga	atc	ttt	ctt	atg	ccc	aac	tca	gtt	96
Leu	Ala	Arg	Glu	Val	Pro	Ser	Arg	Ile	Phe	Leu	Met	Pro	Asn	Ser	Val	
			20					25					30			
cca	gat	cct	acg	aaa	gag	tcg	cta	tca	aat	aaa	att	agt	ttg	aca	gga	144
Pro	Asp	Pro	Thr	Lys	Glu	Ser	Leu	Ser	Asn	Lys	Ile	Ser	Leu	Thr	Gly	
		35					40					45				
gac	act	cac	aat	ctc	act	aac	tgc	tat	ctc	gat	aac	cta	cg	tac	ata	192
Asp	Thr	His	Asn	Leu	Thr	Asn	Cys	Tyr	Leu	Asp	Asn	Leu	Arg	Tyr	Ile	
	50					55					60					
ctg	gct	att	cta	caa	aaa	act	ccc	aat	gaa	gga	gct	gct	gtc	aca	ata	240
Leu	Ala	Ile	Leu	Gln	Lys	Thr	Pro	Asn	Glu	Gly	Ala	Ala	Val	Thr	Ile	
65				70					75						80	
aca	gat	tac	cta	agc	ttt	ttt	gat	aca	caa	aaa	gaa	ggt	att	tat	ttt	288
Thr	Asp	Tyr	Leu	Ser	Phe	Phe	Asp	Thr	Gln	Lys	Glu	Gly	Ile	Tyr	Phe	
				85					90					95		
gca	aaa	aat	ctc	acc	cct	gaa	agt	ggt	ggt	gcg	att	ggt	tat	gcg	agt	336
Ala	Lys	Asn	Leu	Thr	Pro	Glu	Ser	Gly	Gly	Ala	Ile	Gly	Tyr	Ala	Ser	
			100					105					110			
ccc	aat	tct	cct	acc	gtg	gag	att	cgt	gat	aca	ata	ggt	cct	gta	atc	384
Pro	Asn	Ser	Pro	Thr	Val	Glu	Ile	Arg	Asp	Thr	Ile	Gly	Pro	Val	Ile	
		115					120					125				
ttt	gaa	aat	aat	act	tgt	tgc	aga	cca	ttt	aca	tcg	agt	aat	cct	aat	432
Phe	Glu	Asn	Asn	Thr	Cys	Cys	Arg	Pro	Phe	Thr	Ser	Ser	Asn	Pro	Asn	
	130					135					140					
gca	get	gtt	aat	aaa	ata	aga	gaa	ggc	gga	gcc	att	cat	gct	caa	aat	480
Ala	Ala	Val	Asn	Lys	Ile	Arg	Glu	Gly	Gly	Ala	Ile	His	Ala	Gln	Asn	
145					150				155						160	
ctt	tac	ata	aat	cat	aat	cat	gat	gtg	gtc	gga	ttt	atg	aag	aac	ttt	528
Leu	Tyr	Ile	Asn	His	Asn	His	Asp	Val	Val	Gly	Phe	Met	Lys	Asn	Phe	
				165					170					175		
tct	tat	gtc	cga	gga	gga	gcc	att	agt	acc	gct	aat	acc	ttt	gtt	gtg	576
Ser	Tyr	Val	Arg	Gly	Gly	Ala	Ile	Ser	Thr	Ala	Asn	Thr	Phe	Val	Val	
			180					185					190			

FIG.5A

agc gag aat cag tct tgt ttt ctc ttt atg gac aac atc tgt att caa 624  
 Ser Glu Asn Gln Ser Cys Phe Leu Phe Met Asp Asn Ile Cys Ile Gln 195 200 205

act aat aca gca gga aaa ggt ggc gct atc tat gct gga acg agc aat 672  
 Thr Asn Thr Ala Gly Lys Gly Gly Ala Ile Tyr Ala Gly Thr Ser Asn 210 215 220

tct ttt gag agt aat aac tgc gat ctc ttc ttt atc aat aac gcc tgt 720  
 Ser Phe Glu Ser Asn Asn Cys Asp Leu Phe Phe Ile Asn Asn Ala Cys 225 230 235 240

tgt gca gga gga gcg atc ttc tcc cct atc tgt tct cta aca gga aat 768  
 Cys Ala Gly Gly Ala Ile Phe Ser Pro Ile Cys Ser Leu Thr Gly Asn 245 250 255

cgt ggt aac atc gtt ttc tat aac aat cgc tgc ttt aaa aat gta gaa 816  
 Arg Gly Asn Ile Val Phe Tyr Asn Asn Arg Cys Phe Lys Asn Val Glu 260 265 270

aca gct tct tca gaa gct tct gat gga gga gca att aaa gta act act 864  
 Thr Ala Ser Ser Glu Ala Ser Asp Gly Gly Ala Ile Lys Val Thr Thr 275 280 285

cgc cta gat gtt aca ggc aat cgt ggt agg atc ttt ttt agt gac aat 912  
 Arg Leu Asp Val Thr Gly Asn Arg Gly Arg Ile Phe Phe Ser Asp Asn 290 295 300

atc aca aaa aat tat ggc gga gct att tac gct cct gta gtt acc cta 960  
 Ile Thr Lys Asn Tyr Gly Gly Ala Ile Tyr Ala Pro Val Val Thr Leu 305 310 315 320

gtg gat aat ggc cct acc tac ttt ata aac aat atc gcc aat aat aag 1008  
 Val Asp Asn Gly Pro Thr Tyr Phe Ile Asn Asn Ile Ala Asn Asn Lys 325 330 335

ggg ggc gct atc tat ata gac gga acc agc aac tcc aaa att tct gcc 1056  
 Gly Gly Ala Ile Tyr Ile Asp Gly Thr Ser Asn Ser Lys Ile Ser Ala 340 345 350

gac cgc cat gct att att ttt aat gaa aat att gtg act aat gta act 1104  
 Asp Arg His Ala Ile Ile Phe Asn Glu Asn Ile Val Thr Asn Val Thr 355 360 365

aat gca aat ggt acc agt acg tca gct aat cct cct aga aga aat gca 1152  
 Asn Ala Asn Gly Thr Ser Thr Ser Ala Asn Pro Pro Arg Arg Asn Ala 370 375 380

FIG.5B

ata aca gta gca agc tcc tct ggt gaa att cta tta gga gca ggg agt 1200  
 Ile Thr Val Ala Ser Ser Ser Gly Glu Ile Leu Leu Gly Ala Gly Ser 400  
 385 390 395

agc caa aat tta att ttt tat gat cct att gaa gtt agc aat gca ggg 1248  
 Ser Gln Asn Leu Ile Phe Tyr Asp Pro Ile Glu Val Ser Asn Ala Gly 415  
 405 410

gtc tct gtg tcc ttc aat aag gaa gct gat caa aca ggc tct gta gta 1296  
 Val Ser Val Ser Phe Asn Lys Glu Ala Asp Gln Thr Gly Ser Val Val 430  
 420 425

ttt tca gga gct act gtt aat tct gca gat ttt cat caa cgc aat tta 1344  
 Phe Ser Gly Ala Thr Val Asn Ser Ala Asp Phe His Gln Arg Asn Leu 445  
 435 440

caa aca aaa aca cct gca ccc ctt act ctc agt aat ggt ttt cta tgt 1392  
 Gln Thr Lys Thr Pro Ala Pro Leu Thr Leu Ser Asn Gly Phe Leu Cys 460  
 450 455

atc gaa gat cat gct cag ctt aca gtg aat cga ttc aca caa act ggg 1440  
 Ile Glu Asp His Ala Gln Leu Thr Val Asn Arg Phe Thr Gln Thr Gly 480  
 465 470 475

ggt gtt gtt tct ctt ggg aat gga gca gtt ctg agt tgc tat aaa aat 1488  
 Gly Val Val Ser Leu Gly Asn Gly Ala Val Leu Ser Cys Tyr Lys Asn 495  
 485 490

ggt gca gga aat tct gct agc aat gcc tct ata aca ctg aag cat att 1536  
 Gly Ala Gly Asn Ser Ala Ser Asn Ala Ser Ile Thr Leu Lys His Ile 510  
 500 505

gga ttg aat ctt tct tcc att ctg aaa agt ggt gct gag att cct tta 1584  
 Gly Leu Asn Leu Ser Ser Ile Leu Lys Ser Gly Ala Glu Ile Pro Leu 525  
 515 520

ttg tgg gta gag cct aca aat aac agc aat aac tat aca gca gat act 1632  
 Leu Trp Val Glu Pro Thr Asn Asn Ser Asn Asn Tyr Thr Ala Asp Thr 540  
 530 535

gca gct acc ttt tca tta agt gat gta aaa ctc tca ctc att gat gac 1680  
 Ala Ala Thr Phe Ser Leu Ser Asp Val Lys Leu Ser Leu Ile Asp Asp 560  
 545 550 555

tat ggg aat tct cct tat gaa tcc aca gat cta acc cat gct ctg tca 1728  
 Tyr Gly Asn Ser Pro Tyr Glu Ser Thr Asp Leu Thr His Ala Leu Ser 575  
 565 570

FIG.5C

tca	cag	cct	atg	cta	tct	att	tct	gag	gct	agt	gat	aac	cag	cta	aga	1776
Ser	Gln	Pro	Met	Leu	Ser	Ile	Ser	Glu	Ala	Ser	Asp	Asn	Gln	Leu	Arg	
			580					585					590			
tct	gat	gat	atg	gat	ttt	tcg	gga	cta	aat	gtc	cct	cat	tat	gga	tgg	1824
Ser	Asp	Asp	Met	Asp	Phe	Ser	Gly	Leu	Asn	Val	Pro	His	Tyr	Gly	Trp	
			595				600					605				
caa	gga	ctt	tgg	act	tgg	ggc	tgg	gca	aaa	act	caa	gat	cca	gaa	cca	1872
Gln	Gly	Leu	Trp	Thr	Trp	Gly	Trp	Ala	Lys	Thr	Gln	Asp	Pro	Glu	Pro	
	610					615					620					
gca	tct	tca	gca	aca	atc	aca	gat	cca	caa	aaa	gcc	aat	aga	ttc	cat	1920
Ala	Ser	Ser	Ala	Thr	Ile	Thr	Asp	Pro	Gln	Lys	Ala	Asn	Arg	Phe	His	
	625				630					635					640	
aga	acc	tta	tta	ctg	act	tgg	ctt	cct	gct	ggg	tat	gtt	cct	agc	ccg	1968
Arg	Thr	Leu	Leu	Leu	Thr	Trp	Leu	Pro	Ala	Gly	Tyr	Val	Pro	Ser	Pro	
				645					650					655		
aaa	cac	aga	agt	ccc	ctc	ata	gcg	aat	acc	tta	tgg	ggg	aat	atg	ctg	2016
Lys	His	Arg	Ser	Pro	Leu	Ile	Ala	Asn	Thr	Leu	Trp	Gly	Asn	Met	Leu	
			660					665					670			
ctt	gca	aca	gaa	agc	tta	aaa	aat	agt	gca	gaa	ctg	aca	cct	agt	gat	2064
Leu	Ala	Thr	Glu	Ser	Leu	Lys	Asn	Ser	Ala	Glu	Leu	Thr	Pro	Ser	Asp	
		675					680					685				
cat	cct	ttc	tgg	gga	att	aca	gga	gga	gga	cta	ggc	atg	atg	gtt	tac	2112
His	Pro	Phe	Trp	Gly	Ile	Thr	Gly	Gly	Gly	Leu	Gly	Met	Met	Val	Tyr	
	690					695					700					
caa	gat	cct	cga	gaa	aat	cat	cct	gga	ttc	cat	atg	cgc	tct	tcc	gga	2160
Gln	Asp	Pro	Arg	Glu	Asn	His	Pro	Gly	Phe	His	Met	Arg	Ser	Ser	Gly	
	705				710					715					720	
tac	tct	gcg	ggg	atg	ata	gca	ggg	cag	aca	cac	acc	ttc	tca	ttg	aaa	2208
Tyr	Ser	Ala	Gly	Met	Ile	Ala	Gly	Gln	Thr	His	Thr	Phe	Ser	Leu	Lys	
			725					730						735		
ttc	agt	cag	acc	tac	acc	aaa	ctc	aat	gag	cgt	tac	gca	aaa	aac	aac	2256
Phe	Ser	Gln	Thr	Tyr	Thr	Lys	Leu	Asn	Glu	Arg	Tyr	Ala	Lys	Asn	Asn	
			740					745					750			
gta	tct	tct	aaa	aat	tac	tca	tgc	caa	gga	gaa	atg	ctc	ttc	tca	ttg	2304
Val	Ser	Ser	Lys	Asn	Tyr	Ser	Cys	Gln	Gly	Glu	Met	Leu	Phe	Ser	Leu	
			755				760					765				

FIG.5D

caa gaa ggt ttc ttg ctg act aaa tta gtt ggg ctt tac agc tat gga 2352  
 Gln Glu Gly Phe Leu Leu Thr Lys Leu Val Gly Leu Tyr Ser Tyr Gly  
 770 775 780

gac cat aac tgt cac cat ttc tat acc caa gga gaa aat cta aca tct 2400  
 Asp His Asn Cys His His Phe Tyr Thr Gln Gly Glu Asn Leu Thr Ser  
 785 790 795 800

caa ggg acg ttc cgt agt caa acg atg gga ggt gct gtt ttt ttt gat 2448  
 Gln Gly Thr Phe Arg Ser Gln Thr Met Gly Gly Ala Val Phe Phe Asp  
 805 810 815

ctc cct atg aaa ccc ttt gga tca acg cat ata ctg aca gct ccc ttt 2496  
 Leu Pro Met Lys Pro Phe Gly Ser Thr His Ile Leu Thr Ala Pro Phe  
 820 825 830

tta ggt gct ctt ggt att tat tct agc ctg tct cac ttt act gag gtg 2544  
 Leu Gly Ala Leu Gly Ile Tyr Ser Ser Leu Ser His Phe Thr Glu Val  
 835 840 845

gga gcc tat ccg cga agc ttt tct aca aag act cct ttg atc aat gtc 2592  
 Gly Ala Tyr Pro Arg Ser Phe Ser Thr Lys Thr Pro Leu Ile Asn Val  
 850 855 860

cta gtc cct att gga gtt aaa ggt agc ttt atg aat gct acc caa aga 2640  
 Leu Val Pro Ile Gly Val Lys Gly Ser Phe Met Asn Ala Thr Gln Arg  
 865 870 875 880

cct caa gcc tgg act gta gaa ttg gca tac caa ccc gtt ctg tat aga 2688  
 Pro Gln Ala Trp Thr Val Glu Leu Ala Tyr Gln Pro Val Leu Tyr Arg  
 885 890 895

caa gaa cca ggg atc gcg acc cag ctc cta gcc agt aag ggt att tgg 2736  
 Gln Glu Pro Gly Ile Ala Thr Gln Leu Ala Ser Lys Gly Ile Trp  
 900 905 910

ttt ggt agt gga agc ccc tca tcg cgt cat gcc atg tcc tat aaa atc 2784  
 Phe Gly Ser Gly Ser Pro Ser Ser Arg His Ala Met Ser Tyr Lys Ile  
 915 920 925

tca cag caa aca caa cct ttg agt tgg tta act ctc cat ttc cag tat 2832  
 Ser Gln Gln Thr Gln Pro Leu Ser Trp Leu Thr Leu His Phe Gln Tyr  
 930 935 940

cat gga ttc tac tcc tct tca acc ttc tgt aat tat ctc aat ggg gaa 2880  
 His Gly Phe Tyr Ser Ser Ser Thr Phe Cys Asn Tyr Leu Agn Gly Glu  
 945 950 955 960

att gct ctg cga ttc tag 2898  
 Ile Ala Leu Arg Phe  
 965

FIG.5E



atg	cga	cct	gat	cat	atg	aac	ttc	tgt	tgt	cta	tgt	get	gct	att	ttg	48
Met	Arg	Pro	Asp	His	Met	Asn	Phe	Cys	Cys	Leu	Cys	Ala	Ala	Ile	Leu	
1				5				10						15		
tca	tcc	aca	gcg	gtc	ctc	ttt	ggc	cag	gat	ccc	tta	ggg	gaa	acc	gcc	96
Ser	Ser	Thr	Ala	Val	Leu	Phe	Gly	Gln	Asp	Pro	Leu	Gly	Glu	Thr	Ala	
			20				25						30			
ctc	ctc	act	aaa	aat	cct	aat	cat	gtc	gtc	tgt	aca	ttt	ttt	gag	gac	144
Leu	Leu	Thr	Lys	Asn	Pro	Asn	His	Val	Val	Cys	Thr	Phe	Phe	Glu	Asp	
		35				40						45				
tgt	acc	atg	gag	agc	ctc	ttt	cct	gct	ctt	tgt	gct	cat	gca	tca	caa	192
Cys	Thr	Met	Glu	Ser	Leu	Phe	Pro	Ala	Leu	Cys	Ala	His	Ala	Ser	Gln	
	50					55				60						
gac	gat	cct	ttg	tat	gta	ctt	gga	aat	tcc	tac	tgt	tgg	ttc	gta	tct	240
Asp	Asp	Pro	Leu	Tyr	Val	Leu	Gly	Asn	Ser	Tyr	Cys	Trp	Phe	Val	Ser	
65					70					75					80	
aaa	ctc	cat	atc	acg	gac	ccc	aaa	gag	gct	ctt	ttt	aaa	gaa	aaa	gga	288
Lys	Leu	His	Ile	Thr	Asp	Pro	Lys	Glu	Ala	Leu	Phe	Lys	Glu	Lys	Gly	
			85					90					95			
gat	ctt	tcc	att	caa	aac	ttt	cgc	ttc	ctt	tcc	ttc	aca	gat	tgc	tct	336
Asp	Leu	Ser	Ile	Gln	Asn	Phe	Arg	Phe	Leu	Ser	Phe	Thr	Asp	Cys	Ser	
			100				105						110			
tcc	aag	gaa	agc	tct	cct	tct	att	att	cat	caa	aag	aat	ggg	cag	tta	384
Ser	Lys	Glu	Ser	Ser	Pro	Ser	Ile	Ile	His	Gln	Lys	Asn	Gly	Gln	Leu	
		115					120					125				
tcc	ttg	cgc	aat	aat	ggg	agc	atg	agt	ttc	tgt	cga	aat	cat	gct	gaa	432
Ser	Leu	Arg	Asn	Asn	Gly	Ser	Met	Ser	Phe	Cys	Arg	Asn	His	Ala	Glu	
	130				135						140					
ggc	tct	gga	gga	gcc	atc	tct	gcg	gat	gcc	ttt	tct	cta	cag	cac	aac	480
Gly	Ser	Gly	Gly	Ala	Ile	Ser	Ala	Asp	Ala	Phe	Ser	Leu	Gln	His	Asn	
145				150					155						160	
tat	ctt	ttc	aca	gct	ttt	gaa	gag	aat	tct	tct	aaa	gga	aat	ggc	gga	528
Tyr	Leu	Phe	Thr	Ala	Phe	Glu	Glu	Asn	Ser	Ser	Lys	Gly	Asn	Gly	Gly	
			165					170					175			
gcc	att	cag	gct	caa	acc	ttc	tct	tta	tct	aga	aat	gtg	tcg	cct	att	576
Ala	Ile	Gln	Ala	Gln	Thr	Phe	Ser	Leu	Ser	Arg	Asn	Val	Ser	Pro	Ile	
			180					185					190			

FIG.6A

tct	ttc	gcc	cgt	aat	cgt	gcg	gat	tta	aat	ggc	ggc	gct	att	tgc	tgt	624
Ser	Phe	Ala	Arg	Asn	Arg	Ala	Asp	Leu	Asn	Gly	Gly	Ala	Ile	Cys	Cys	
		195					200					205				
agt	aat	ctt	att	tgt	tca	ggg	aat	gta	aac	cct	ctc	ttt	ttc	act	gga	672
Ser	Asn	Leu	Ile	Cys	Ser	Gly	Asn	Val	Asn	Pro	Leu	Phe	Phe	Thr	Gly	
		210					215				220					
aac	tcc	gcc	acg	aat	gga	ggc	gct	att	tgt	tgt	atc	agc	gat	cta	aac	720
Asn	Ser	Ala	Thr	Asn	Gly	Gly	Ala	Ile	Cys	Cys	Ile	Ser	Asp	Leu	Asn	
225					230					235					240	
acc	tca	gaa	aaa	ggc	tct	ctc	tct	ctt	gct	tgt	aac	caa	gaa	acg	cta	768
Thr	Ser	Glu	Lys	Gly	Ser	Leu	Ser	Leu	Ala	Cys	Asn	Gln	Glu	Thr	Leu	
				245					250					255		
ttt	gca	agc	aat	tct	gct	aaa	gaa	aaa	ggc	ggg	gct	att	tat	gcc	aag	816
Phe	Ala	Ser	Asn	Ser	Ala	Lys	Glu	Lys	Gly	Gly	Ala	Ile	Tyr	Ala	Lys	
			260					265					270			
cac	atg	gta	ttg	cgt	tat	aac	ggg	cct	gtt	tcc	ttc	att	aac	aac	agc	864
His	Met	Val	Leu	Arg	Tyr	Asn	Gly	Pro	Val	Ser	Phe	Ile	Asn	Asn	Ser	
		275					280					285				
gct	aaa	ata	ggg	gga	gct	atc	gcc	atc	cag	tcc	gga	ggg	agt	ctc	tct	912
Ala	Lys	Ile	Gly	Gly	Ala	Ile	Ala	Ile	Gln	Ser	Gly	Gly	Ser	Leu	Ser	
		290				295					300					
atc	ctt	gca	ggg	gaa	gga	tct	gtt	ctg	ttc	cag	aat	aac	tcc	caa	cgc	960
Ile	Leu	Ala	Gly	Glu	Gly	Ser	Val	Leu	Phe	Gln	Asn	Asn	Ser	Gln	Arg	
305					310					315					320	
acc	tcc	gac	caa	ggg	cta	gta	aga	aac	gcc	atc	cac	tta	gag	aaa	gat	1008
Thr	Ser	Asp	Gln	Gly	Leu	Val	Arg	Asn	Ala	Ile	Tyr	Leu	Glu	Lys	Asp	
				325					330					335		
gcg	att	ctt	tct	tcc	tta	gaa	gct	cgc	aac	gga	gat	att	ctt	ttc	ttt	1056
Ala	Ile	Leu	Ser	Ser	Leu	Glu	Ala	Arg	Asn	Gly	Asp	Ile	Leu	Phe	Phe	
			340					345					350			
gat	cct	att	gta	caa	gaa	agt	agc	agc	aaa	gaa	tcg	cct	ctt	ccc	tcc	1104
Asp	Pro	Ile	Val	Gln	Glu	Ser	Ser	Ser	Lys	Glu	Ser	Pro	Leu	Pro	Ser	
		355					360					365				
tct	ttg	caa	gcc	agc	gtg	act	tct	ccc	acc	cca	gcc	acc	gca	tct	cct	1152
Ser	Leu	Gln	Ala	Ser	Val	Thr	Ser	Pro	Thr	Pro	Ala	Thr	Ala	Ser	Pro	
		370				375					380					

FIG.6B

tta gtt att cag aca agt gca aac cgt tca gtg att ttc tcg agc gaa 1200  
 Leu Val Ile Gln Thr Ser Ala Asn Arg Ser Val Ile Phe Ser Ser Glu  
 385 390 395 400

cgt ctt tct gaa gaa gaa aaa act cct gat aac ctc act tcc caa cta 1248  
 Arg Leu Ser Glu Glu Glu Lys Thr Pro Asp Asn Leu Thr Ser Gln Leu  
 405 410 415

cag cag cct atc gaa ctg aaa tcc gga cgc tta gtt tta aaa gat cgc 1296  
 Gln Gln Pro Ile Glu Leu Lys Ser Gly Arg Leu Val Leu Lys Asp Arg  
 420 425 430

gct gtc ctt tcc gcg cct tct ctc tct cag gat cct caa gct ctc ctc 1344  
 Ala Val Leu Ser Ala Pro Ser Leu Ser Gln Asp Pro Gln Ala Leu Leu  
 435 440 445

att atg gaa gcg gga act tct tta aaa act tcc tct gat ttg aag tta 1392  
 Ile Met Glu Ala Gly Thr Ser Leu Lys Thr Ser Ser Asp Leu Lys Leu  
 450 455 460

gct acg cta agt att ccc ctt cat tcc tta gat act gaa aaa agc gta 1440  
 Ala Thr Leu Ser Ile Pro Leu His Ser Leu Asp Thr Glu Lys Ser Val  
 465 470 475 480

act atc cac gcc cct aac ctt tct atc caa aag atc ttc ctc tct aat 1488  
 Thr Ile His Ala Pro Asn Leu Ser Ile Gln Lys Ile Phe Leu Ser Asn  
 485 490 495

tct gga gat gag aat ttt tat gaa aat gta gag ctt ctc agt aaa gag 1536  
 Ser Gly Asp Glu Asn Phe Tyr Glu Asn Val Glu Leu Leu Ser Lys Glu  
 500 505 510

caa aac aat att cct ctc ctt act ctc tct aaa gag caa tct cat tta 1584  
 Gln Asn Asn Ile Pro Leu Leu Thr Leu Ser Lys Glu Gln Ser His Leu  
 515 520 525

cat ctt cct gat ggg aac ctc tct tct cac ttt gga tat caa gga gat 1632  
 His Leu Pro Asp Gly Asn Leu Ser Ser His Phe Gly Tyr Gln Gly Asp  
 530 535 540

tgg act ttt tct tgg aaa gat tct gat gaa ggg cat tct ctg att gct 1680  
 Trp Thr Phe Ser Trp Lys Asp Ser Asp Glu Gly His Ser Leu Ile Ala  
 545 550 555 560

aat tgg acg cct aaa aac tat gtg cct cat cca gaa cgt caa tct aca 1728  
 Asn Trp Thr Pro Lys Asn Tyr Val Pro His Pro Glu Arg Gln Ser Thr  
 565 570 575

FIG.6C

ctc gtt gcg aac act ctt tgg aac acc tat tcc gat atg caa gct gtg 1776  
Leu Val Ala Asn Thr Leu Trp Asn Thr Tyr Ser Asp Met Gln Ala Val  
580 585 590

cag tcg atg att aat aca ata gcg cac gga gga gcc tat cta ttt gga 1824  
Gln Ser Met Ile Asn Thr Ile Ala His Gly Gly Ala Tyr Leu Phe Gly  
595 600 605

acg tgg gga tct gct gtt tct aat tta ttc tat gct cac gac agc tct 1872  
Thr Trp Gly Ser Ala Val Ser Asn Leu Phe Tyr Ala His Asp Ser Ser  
610 615 620

ggg aaa cct atc gat aat tgg cat cat aga agc ctt ggc tac cta ttc 1920  
Gly Lys Pro Ile Asp Asn Trp His His Arg Ser Leu Gly Tyr Leu Phe  
625 630 635 640

ggt atc agt act cac agt tta gat gac cat tct ttc tgc ttg gct gca 1968  
Gly Ile Ser Thr His Ser Leu Asp Asp His Ser Phe Cys Leu Ala Ala  
645 650 655

gga caa tta ctc ggg aaa tcg tcc gat tcc ttt att acg tct aca gaa 2016  
Gly Gln Leu Leu Gly Lys Ser Ser Asp Ser Phe Ile Thr Ser Thr Glu  
660 665 670

acg acc tcc tat ata gct act gta caa gcg caa ctc gct acc tct cta 2064  
Thr Thr Ser Tyr Ile Ala Thr Val Gln Ala Gln Leu Ala Thr Ser Leu  
675 680 685

atg aaa atc tct gca cag gca tgc tac aat gaa agt atc cat gag cta 2112  
Met Lys Ile Ser Ala Gln Ala Cys Tyr Asn Glu Ser Ile His Glu Leu  
690 695 700

aaa aca aaa tat cgc tcc ttc tct aaa gaa gga ttc gga tcc tgg cat 2160  
Lys Thr Lys Tyr Arg Ser Phe Ser Lys Glu Gly Phe Gly Ser Trp His  
705 710 715 720

agc gtt gca gta tcc gga gaa gtg tgc gca tcg att cct att gta tcc 2208  
Ser Val Ala Val Ser Gly Glu Val Cys Ala Ser Ile Pro Ile Val Ser  
725 730 735

aat ggt tcc gga ctg ttc agc tcc ttc tct att ttc tct aaa ctg caa 2256  
Asn Gly Ser Gly Leu Phe Ser Ser Phe Ser Ile Phe Ser Lys Leu Gln  
740 745 750

gga ttt tca gga aca cag gac ggt ttt gag gag agt tcg gga gag att 2304  
Gly Phe Ser Gly Thr Gln Asp Gly Phe Glu Glu Ser Ser Gly Glu Ile  
755 760 765

FIG.6D



cgg tcc ttt tct gcc agc tct ttc aga aat att tca ctt cct ata gga 2352  
 Arg Ser Phe Ser Ala Ser Ser Phe Arg Asn Ile Ser Leu Pro Ile Gly  
 770 775 780

ata aca ttt gaa aaa aaa tcc caa aaa aca cga acc tac tat tac ttt 2400  
 Ile Thr Phe Glu Lys Lys Ser Gln Lys Thr Arg Thr Tyr Tyr Tyr Phe  
 785 790 795 800

cta gga gcc tac atc caa gac ctg aaa cgt gat gtg gaa tcg gga cct 2448  
 Leu Gly Ala Tyr Ile Gln Asp Leu Lys Arg Asp Val Glu Ser Gly Pro  
 805 810 815

gta gtg tta ctc aaa aat gcc gtc tcc tgg gat gct cct atg gcg aac 2496  
 Val Val Leu Leu Lys Asn Ala Val Ser Trp Asp Ala Pro Met Ala Asn  
 820 825 830

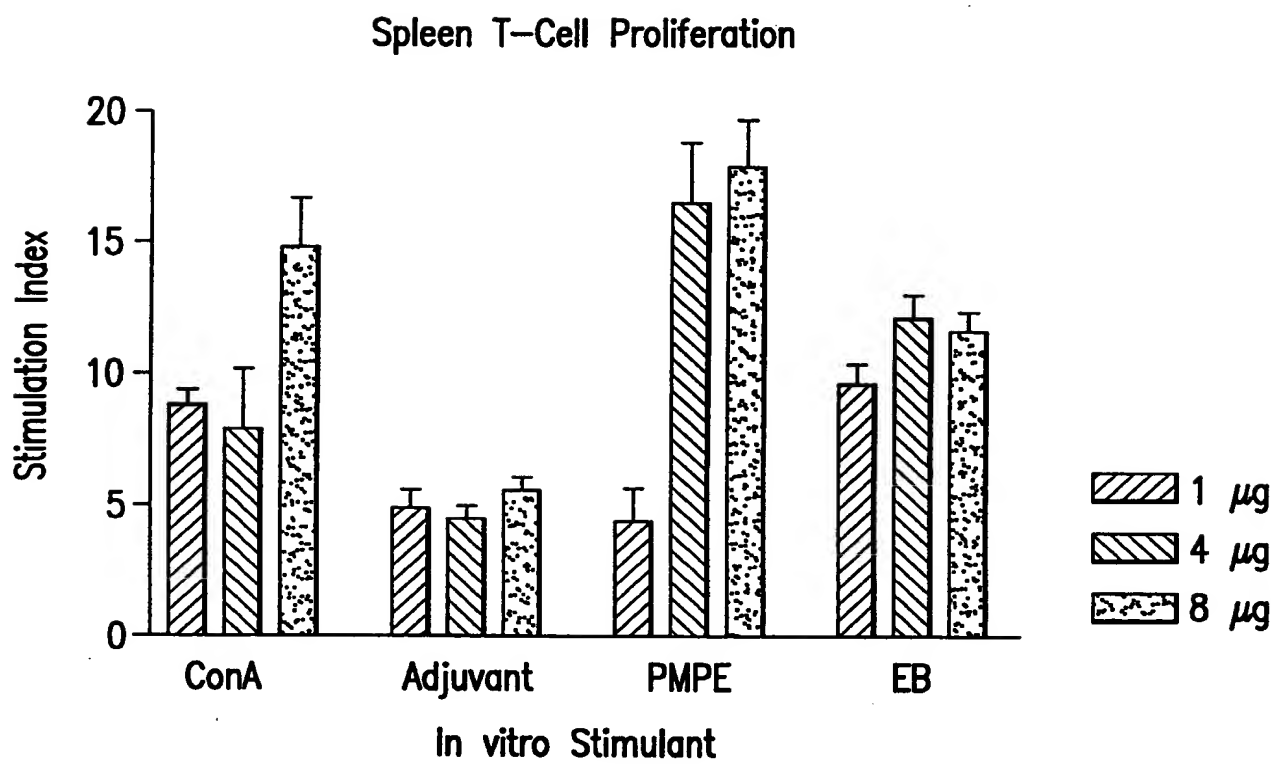
ttg gat tca cga gcc tac atg ttc agg ctt acg aat caa aga gct cta 2544  
 Leu Asp Ser Arg Ala Tyr Met Phe Arg Leu Thr Asn Gln Arg Ala Leu  
 835 840 845

cac aga ctt cag acg ctg tta aat gtg tct tgt gtg ctg cgt ggg caa 2592  
 His Arg Leu Gln Thr Leu Leu Asn Val Ser Cys Val Leu Arg Gly Gln  
 850 855 860

agc cat agt tac tcc ctg gat ctg ggg acc act tac agg ttc 2634  
 Ser His Ser Tyr Ser Leu Asp Leu Gly Thr Thr Tyr Arg Phe  
 865 870 875

tag 2637

FIG.6E



**FIG.7**